

Abstract

A non-dripping, flame retardant, fluoropolymeric insulative composition comprises: (a) a fluoropolymeric base polymer; and (b) a nanoclay additive. The preferred nanoclay additive is selected from the group consisting of synthetic silicate montmorillonites, natural layered silicate montmorillonites and a layered alumina-silicate. Such compositions are especially useful for coating wires and conductors employed in high-speed telecommunication data transmission cables. A method for preparing an exfoliated thermoplastic elastomer blend of a fluoropolymer and a nanocomposite comprising dynamically mixing said fluoropolymer and said nanocomposite in a ratio of from about 99:1 to about 50:50 parts by weight, respectively.